

FIG. 2

Server Functions
Function Start_Server
Out (server features, server location)
Function Push_Server_Status
If server status change
Out (change in status)

FIG. 3A

Server Directory Interface
Function Register_Server
In (server features, server location)
Modify directory to include new features
Function Update_Register
In (change in status)
Modify directory to include status change
Function Service_Request
In (Service Request)
Execute request as independent operation without any coupling
Function Load_Balance
In (Server Directory)
If load imbalance condition 1
update server directory to redistribute load

If load imbalance condition 2 change back-up server status to primary server status If load imbalance condition 3 change primary server status to back-up server status

FIG. 3B

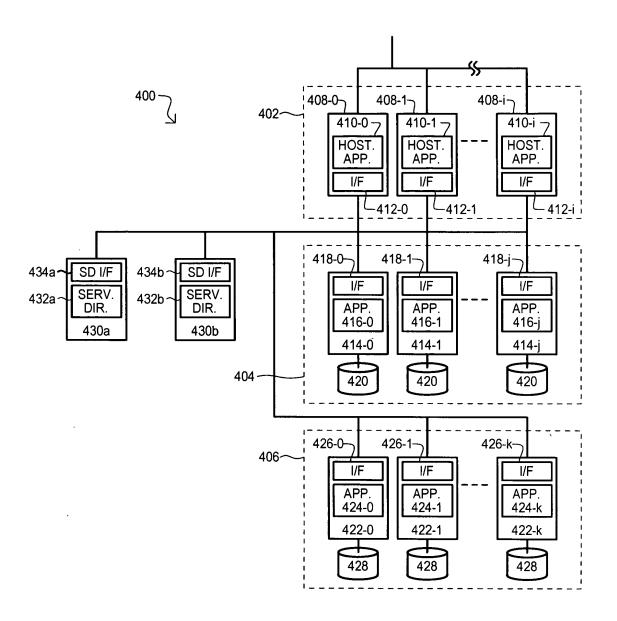


FIG. 4

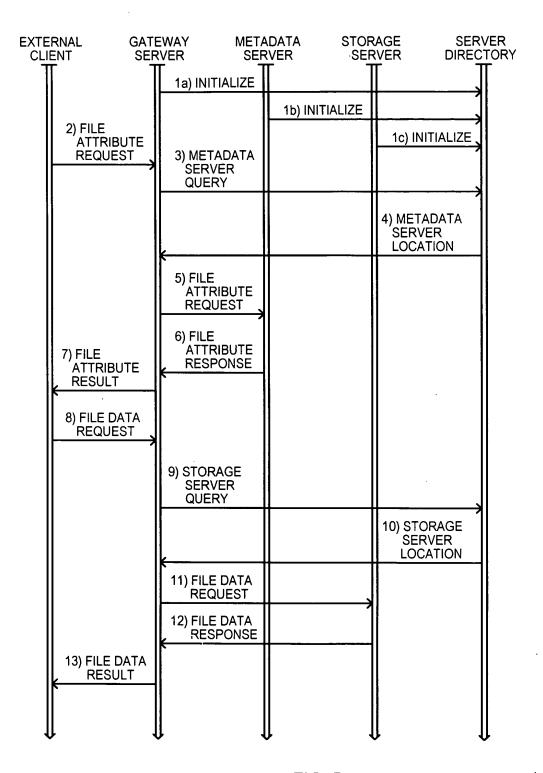


FIG. 5

Gateway_Server Functions

Function Register_Gateway_Server

Out (hosted application service requirements, gateway server location)

Function Gateway_Server_Status

If gateway server resources out of range

Out (features that are out of range)

FIG. 6A

Metadata_Server Functions

Function Register_Metadata_Server

Server Features = location, metadata range accessed, storage total, storage used

Out (Server Features)

Function Metadata_Server_Status

If metadata server resources out of range

Out (features that are out of range)

FIG. 6B

Storage_Server Functions

Function Register_Storage_Server

File Server Features = location, range of files accessed, storage total, storage used

Out (Storage Server Features)

Function Storage_Server_Status

If storage server values out of range

Out (features that are out of range)

FIG. 6C

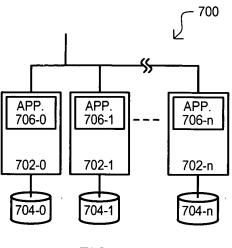


FIG. 7

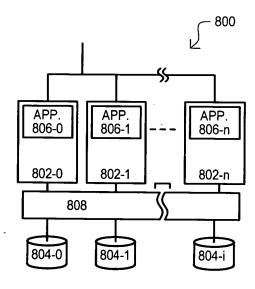


FIG. 8